November Meeting

Date & Time: Wednesday, November 10, 1982 **ONLY** at 8:00 p.m.

Place: Palace of Fine Arts Theatre (next to Exploratorium) San Francisco

Speaker: Dr. George B. Schaller

Subject: "Wildlife and Conservation in the Himalayan Region"

Tickets are still available for the first of the Academy's Claire Matzger Lilienthal Distinguished Lecture Series featuring the well-known zoologist George Schaller. For nearly five years Schaller has studied wildlife in the Himalayan region including the elusive snow leopard, the remote blue sheep and markhor goat, and in collaboration with the Chinese government he has studied the giant panda. In this special one time only lecture for members and their guests Dr. Schaller will take you to the Hindu Kush and Karakoram in Pakistan, to the high ranges of Kashmir and Nepal, to the uplands of Tibet, and to the rugged highlands of western Sichuan in China.

Please use the attached reservation form for your tickets. Telephone reservations cannot be taken for this event so act today for this special members' event!

SNEAK PREVIEW: The December 8 & 9 Members' Meetings will feature Academy Herpetologist, Dr. Bob Drewes, and a science-oriented lecture on his amphibian research in Africa and the Academy's role in such scientific projects.

TICKET INFORMATION AND RESERVATION FORM

THE CALIFORNIA ACADEMY OF SCIENCES presents

THE CLAIRE MATZGER LILIENTHAL DISTINGUISHED LECTURE
The First In A Series

Dr. George B. Schaller

"Wildlife and Conservation In the Himalayan Region"

Tickets are available for the lecture, "Wildlife and Conservation In the Himalayan Region" with this registration form. Reservations will be accepted in order of receipt and unfortunately telephone reservations cannot be accepted for this event.

For further information, please call the Education/Travel Office at (415) 221-5100.

TICKET ORDER FORM

PRICE:	Members of the California Academy of Sciences	FREE
	Guests of Academy members	$2.50

Please mail this form with check (when applicable) made payable to the CALIFORNIA ACADEMY OF SCIENCES and a self-addressed, stamped envelope to:

LILIENTHAL DISTINGUISHED LECTURE SERIES
California Academy of Sciences
Golden Gate Park
San Francisco, CA 94118

Name _____

Address _____

Zip Code _____

Daytime Telephone # _____

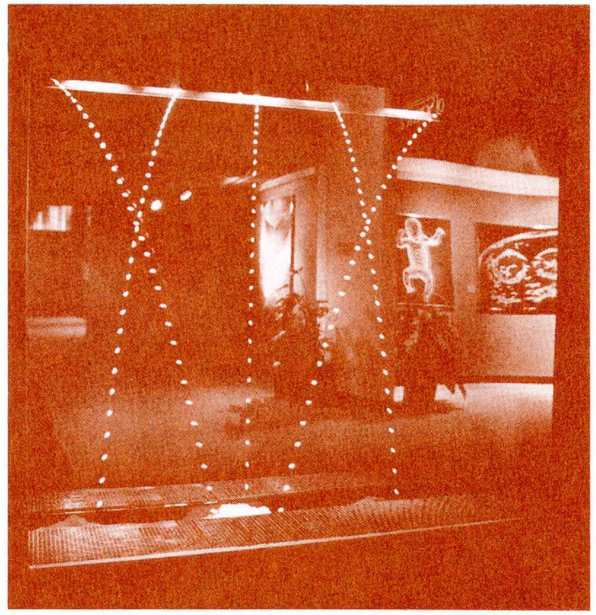
Tickets @ FREE _____

Tickets @ $2.50 _____

Total Amount Enclosed _____

NO REFUNDS/NO EXCHANGES

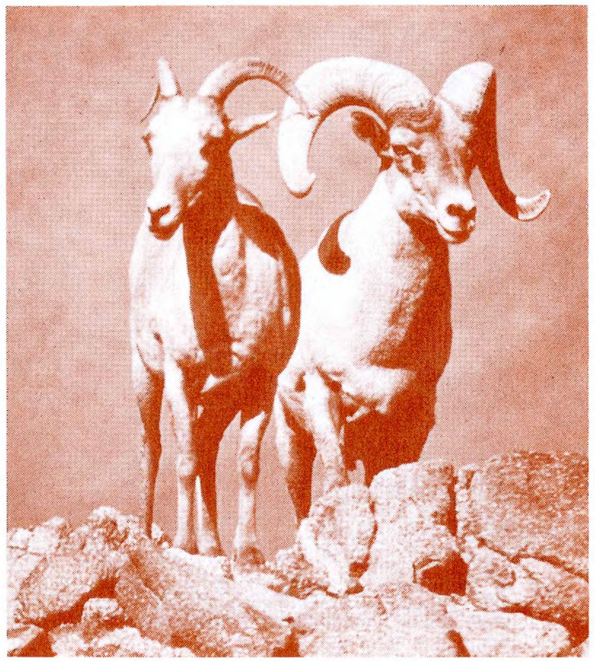
Special Exhibits



"Stop the Drop"

In 1872 Leland Stanford hired photographer Eadweard Muybridge to settle a bet. Stanford believed that all four of a trotting horse's feet left the ground at the same time. A friend disagreed and the bet was on. Stop-action pioneer photographer Muybridge settled the debate with a blurred, but adequate series of photos that made Mr. Stanford $25,000 richer!

An exhibit of over 100 photographs entitled, **"The Eye of Science: Seeing is the Beginning of Understanding,"** is on display to show the various sophisticated techniques of image sensing which have been developed over the past hundred years. An early example is a Muybridge series of stop-action photos of "Woman Jumping Chair." Later photographic methods include computer-enhancing and ultrasonic imaging, time-lapse and X-ray photography. Subjects include Dr. Harold Edgerton's famous stop-action "Milk Drop," a color density scan of a human skull, and the Voyager's picture of Saturn taken 32 million miles from Earth. A recent one-hour National Geographic film entitled, "The Invisible World" accompanies the exhibit. (Through January 30, 1983 in the McBean-Peterson Galleries.)



Bighorn Sheep

For three years, wildlife photographer Tupper Ansel Blake traveled the length and breadth of California hunting (with a camera!) the birds, mammals and habitats which make this state the wonderland that it is. The result, (the subject of a major photo-essay in the October issue of *California Magazine*) is a stunning exhibit entitled, **"The Wildlands and Wildlife of California,"** a photographic tour of the Golden State. The exhibit's designer, Gordon Ashby, who was responsible for exhibit halls at the Oakland Museum and Coyote Point Museum, has lent his talents again to make this exhibit a "must-see" for wildlife enthusiasts, photographers and designers alike. The exhibit is sponsored by the California Department of Fish and Game and the National Audubon Society and it will continue through January 31, 1983 in Hohfeld Gallery II and Lovell White Hall.

Other continuing exhibits include **The Heritage of Islam** (through January 2); **Blue Water Plankton** (through January 6); and the Academy's own **Hopi Kachina: Spirit of Life** which has returned from a very successful national tour.

Morrison Planetarium

Is there other life in the universe? If so, how and where do we find it? Can there be other intelligent civilizations among the stars? We have sent probes to Mars to search for life in its rusty soil; we have listened with great radio telescopes for signals from space; and four spacecraft are currently outbound from the solar system, each bearing a message of greeting from the blue planet called Earth. What have we found? Join us in the search for extraterrestrial life at **Are We Alone?** the current star show in the planetarium. Shows daily at 2:00 p.m., with evening shows on Wednesday and Thursday at 7:30, Saturday and Sunday performances at 12:30, 2:00 and 3:30 p.m. Holiday schedule on Veterans Day, November 11 and on November 26 at 11:00 a.m., 12:30, 2:00 and 3:30 p.m. *The planetarium will be closed on Thanksgiving Day and on November 29 and 30 and December 1 and 2 to prepare for* **The Christmas Star** *(opening December 3).*

Find out "what's up" in the current night sky over San Francisco at **Exploring the Skies of the Season** every Saturday and Sunday at 11:00 a.m.

Members may use their complimentary planetarium passes for free admission to all of these shows.

Light Shows

Experience multi-media projections, incandescent special effects, laser animation, and a variety of music in the dazzling presentations by Eye See the Light Show, Inc.

Lights Fantastic - Saturday, Sunday, Veterans Day (November 11) and November 26 at 5:00 p.m.

Rock Stars - Thursday at 9:00 p.m., Friday and Saturday at 9:00 and 10:30 p.m., Sunday at 9:00 p.m.

The War of the Worlds - Friday through Sunday at 7:30 p.m.

PLEASE NOTE: THERE WILL BE NO SHOWS ON THANKSGIVING DAY

Members' complimentary passes are not usable for these light shows. General admission is $4.00 for evening presentations and $3.50 for matinees (5:00 p.m. only). Admission for children 10 and under and for senior citizens is $2.00. Advance tickets are available through BASS outlets.

Inside the Academy

Music at the Museum

On Sunday, Novmeber 7 at 2:00 p.m. the San Francisco Recreation Symphony will perform a 40-minute program of classical works under conductor Laurie Steele. This free performance will take place in the Wattis Hall of Man, or, weather permitting, in the Whale Courtyard. So. . . bring your family and friends, enjoy a picnic in the park, then come to the Academy!

New scientific publications from the Academy.

Three issues of the *Proceedings* and one of the *Occasional Papers of the California Academy of Sciences* were published on June 15, 1982.

"The ecology and systematics of the amphisbaenian genus *Bipes,*" by Theodore J. Papenfuss. *Occas. Pap.* 136. [Dr. Papenfuss, a Research Associate in the Academy's Department of Herpetology, presents his studies of this fascinating group of limbless burrowing lizards.]

"The Southeast Asian freshwater pufferfish genus *Chonerhinos* (Tetraodontidae), with descriptions of new species," by Tyson R. Roberts, *Proceedings* vol. 43, no. 1. [This article is one of several based on material collected during explorations of Southeast Asia by Dr. Roberts, NSF Research Zoologist in the Academy's Department of Ichthyology. Pufferfishes are predominantly marine, but members of *Chonerinos* are unusual in being entirely restricted to freshwater.]

"Synonymies of Indian Ocean eels, with the description of *Gymnothorax enigmaticus,* a moray previously known as *G. ruppeli,*" by John E. McCosker and John E. Randall, *Proceedings* vol. 43, no. 2. [Tangled eel names are straightened out by Steinhart Aquarium Director McCosker and Bishop Museum Curator Randall.]

"New species of North American *Tachysphex* wasps (Hymenoptera, Sphecidae)," by Wojciech J. Pulawski. *Proceedings* vol. 43, no. 3. [Wasp expert Dr. Pulawski, a curator in the Academy's Department of Entomology, describes 19 new species of wasps from North America.]

New Tidepool Animals On Display

Now that the freshwater has been eliminated from the saltwater lines, (a problem the Steinhart Aquarium experienced this fall) the tidepool displays are once again back to normal. . . and even better thanks to a generous donation from PG&E. About 150 abalone and two dozen young rockfish, which were raised as part of a state required water test at Diablo Canyon, were sent to the Academy in time for the annual Open House on October 13.

Special Lectures

"Wildlife, People and Conflict in the Falkland Islands"
with Ian Strange

Wednesday, November 3
8:00 p.m.
Morrison Auditorium

Ian Strange, world-noted naturalist, artist and author of the recent award-winning "Penguin World," made his first trip to the Falkland Islands in 1959, a trip that would commit him for life to that part of the world and to the preservation of its wildlife. Over the years he has been successful in encouraging the local government to set aside a number of small outer islands of the Falkland archipelago as wildlife refuges and to regulate hunting and egg collecting. In 1973 he purchased the western-most island of the group, called New Island, which is now a wildlife reserve although it still retains its small sheep farm and encourages limited numbers of tourists and scientists to visit and work.

In this special slide-lecture you will be given an armchair tour of the Falkland Islands to meet its people and take a close-up look at its remarkable wildlife including, of course, the comical penguin inhabitants of the area.

Members are encouraged to bring their guests to this special free lecture.

"The Hopi: Timeless Traditions in the Contemporary World"
with Jake and Suzanne Page

Tuesday, November 30
8:00 p.m.
Morrison Auditorium

Although photos abound of the Hopi Indians of Northeastern Arizona, rarely have they been photographed in any systematic way. Now, after nine years of travel and extended visits to the Hopi Reservation, Jake and Suzanne Page have completed a unique collection of intimate photos of Hopi daily life which will be the subject of a new book entitled, "Hopi" published this month by Harry N. Abrams, Inc.

This special free members' lecture will introduce you to the many facets of daily life of this ancient society which is maintaining its timeless traditions as it copes with modern day pressures. The slide-lecture will focus on rituals rarely seen by the outside world such as weddings, baby-naming ceremonies and pilgrimages to sacred shrines.

Following the presentation, copies of the book will be on sale in the lobby and will be available for signing by the authors.

Education and Travel

Mendocino Mushrooming

December 3 - 5 (departing at 1:00 p.m.)
Leaders: Dr. and Mrs. Robert T. Orr
Cost: $155 per person, double occupancy, $175 single. Non-members, $175 and $195, includes transportation, accommodations, two box lunches and refreshments

Members will spend the weekend exploring the beautiful Mendocino coast and its abundant mushroom hideaways on this delightful tour. A chartered bus will take us to the lovely Little River Inn, our lodgings for our forays into the woods. Mushrooming excursions and picnics in scenic coastal areas provide both an educational and relaxing experience for the traveller.

Antarctica and the Falkland Islands
Four departure dates: November 13, November 30, December 24, January 17

Attention adventurous travelers! Antarctica and the Falkland Islands are our destinations on this unique cruise aboard the *M.S. Lindblad Explorer.* Huge aggregations of penguins, albatross, terns and other birds, sea lions, fur seals, elephant seals, and porpoises await you on this spectacular journey. There will be opportunities to visit the research stations of Chile, Argentina, and the American Palmer Station. For information and a colorful brochure, please call the Academy Travel Office at (415) 221-5100.

Baja California Circumnavigated
February 5 - February 19

The *M.V. Northwest Explorer* will make its third annual cruise with Academy members around the Baja California Peninsula. Led by Ornithology curator, Dr. Luis Baptista, Academy members will see tremendous herds of elephant seals in the San Benitos Islands, and will visit the whale lagoons of the west coast for some "close encounters" with the California gray whales. Rounding the tip of the peninsula, the ship enters the Sea of Cortez where members will see numerous birds, fishes and the bizarre plants of this region. Truly a naturalist's delight! Costs range from $2650 -$3680 plus air fare to San Diego. For information, please call the Academy Travel Office at (415) 221-5100.

Ethiopia, Egypt and The Red Sea
March 6 - 29

The grandeur of ancient civilizations and a variety of contemporary cultures are the focus of this extraordinary tour, planned especially for Academy members. Picturesque Ethiopia is our first destination as we visit Addis Ababa, Lake Tana - source of the Blue Nile, and a village of Falashas, a distinct ethnic group who practice an archaic form of Judaism. We will also explore numerous architectural wonders before traveling to Egypt. Two days are spent in Cairo before boarding the *M.S. Lindblad Polaris* for a cruise through the Red Sea. Highlights include St. Catherine's Monastery-site of "The Burning Bush", the fabled rose-red city of Petra and the Gubal Islands. Snorkelers will enjoy the abundant marine life in the Gubal

Islands and at Hurghada. Costs range from $2970 to $4540 plus air. For information, please call the Academy Travel Office at (415) 221-5100.

The Geology of the Grand Canyon
April 5 - April 9

This trip is filled, however you may receive a brochure or put your name on a waiting list by calling the Education/Travel Office at (415) 221-5100.

King Range Backpack
April 24 - 28

Northern California's King Range Beach is a remote and beautiful 24-mile stretch of pristine black sand. Academy members will hike the area, north to south, between the Mattole River and Shelter Cove. Encountering marine mammals, birds, intertidal life, coastal plants and wildflowers. Anyone capable of hiking five miles a day, carrying approximately 30 pounds in a backpack, can handle this trip. Cost is $185 per person. For information, please call Focus On Nature at (707) 584-5154.

Spain and Morocco
May 14 - June 5

Members will enjoy a wealth of Islamic art history and architecture on this 23-day tour of Spain and Morocco. Planned in conjunction with the exhibit, "The Heritage of Islam", the tour will be led by Antony Hutt. Mr. Hutt, an Islamic scholar, has led numerous archaeological expeditions in the Middle East, and participated as a speaker in the Academy's "Heritage of Islam Lecture Series." Highlights of the tour will include the sights of Madrid, El Escorial, Segovia, Toledo, and the splendors of the Alhambra and the Alcazar. Some time will be spent in Cordoba and Seville in Andalucia, a region occupied by the Moors for more than eight centuries. Members will travel to Morocco to visit Rabat, Fez, Meknes, and will cross the Atlas Mountains to Erfoud, the gateway to the Sahara. The cost is $2500 per person for land arrangements, and $908 for air fare. For information, please call Siemer & Hand Travel at (415) 788-7186.

No. 515

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(415) 221-5100 221-4214

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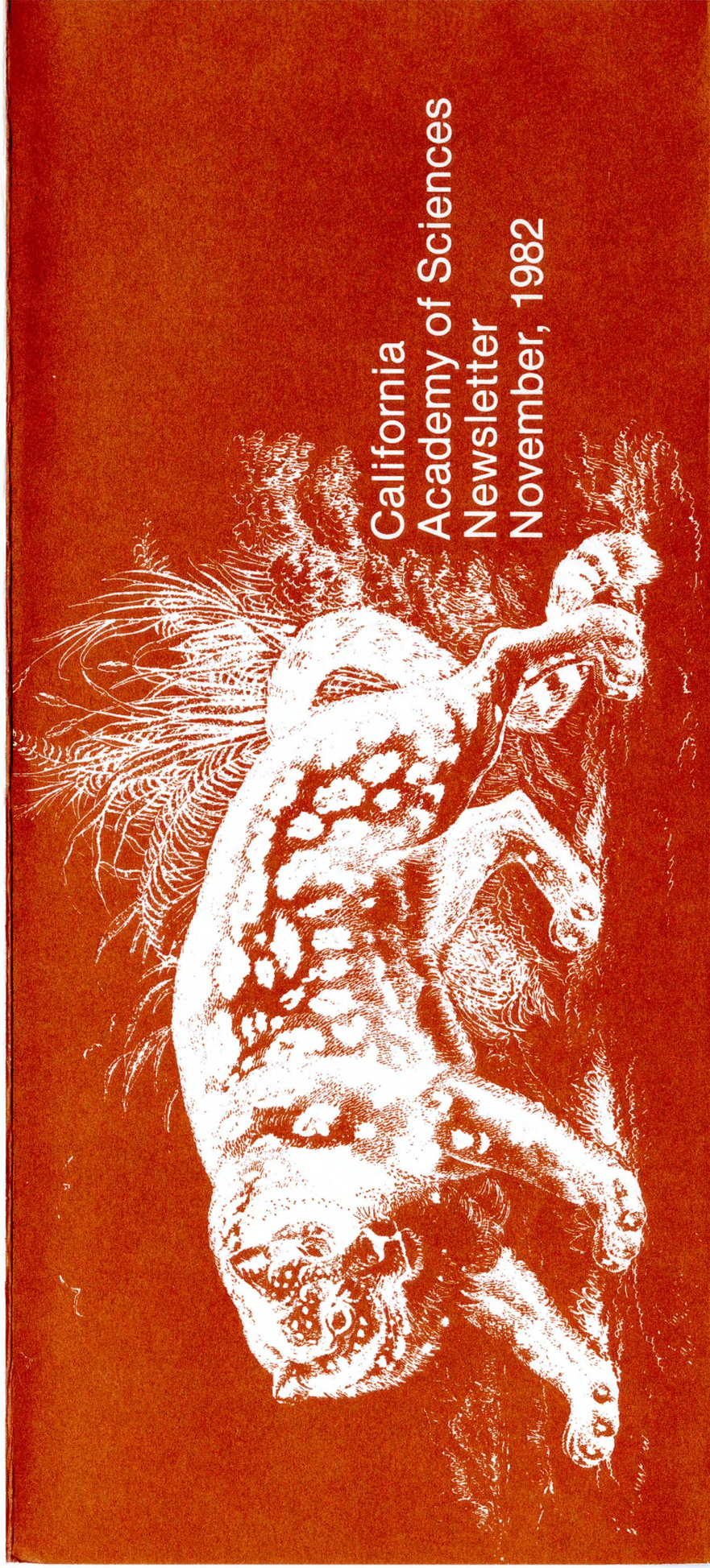
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